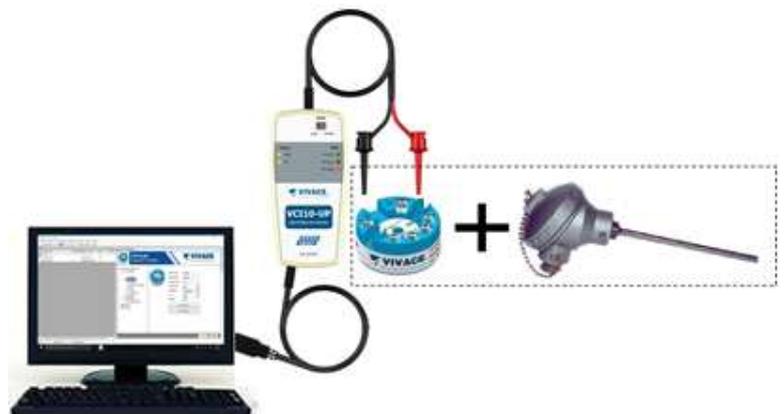


VCI10-UP

PROFIBUS-PA USB COMMUNICATION INTERFACE



- ✓ USB Type-A Standard Connection
- ✓ Powered by USB to Device: 21 Vdc \pm 10%
- ✓ Indication LEDs for communication and diagnostics
- ✓ Local and Remote Multimaster Modes
- ✓ No Need for External Power Supply
- ✓ Easy Installation on Windows® and Linux®
- ✓ Compatible with any EDDL or FDT/DTM USB-based Tool
- ✓ PA-SNIFFER®
Freeware Profibus-PA Frame Complete Analysis



DESCRIPTION

VCI10-UP is a versatile device assembled to connect a workstation via its USB port (Universal Serial Bus) directly to the industry standard communication bus IEC-61158-2, PROFIBUS-PA. This creates a Human-Machine Interface (HMI) which allows an efficient real-time interaction with transmitters, sensors, actuators, converters and other field devices.

With its lean design, VCI10-UP becomes an indispensable ally for maintenance and commissioning staff. PROFIBUS-PA device calibration and parametrization have never been easier. It expedites the replacement tasks, parameterization and diagnosis of PROFIBUS PA devices.

VCI10-UP, in addition to allowing easy parameterization and calibration of PROFIBUS-PA equipment with FDT/DTM tools (eg PACTware, FieldCare, FieldMate etc.) also works as a message (frames) analyzer, using the PA-SNIFFER® tool.

VCI10-UP is used in many daily tasks. From the bench activities which task, that demands autonomous power supply to the instrument, to the remote connection in a running PROFIBUS network that demands multimaster capabilities.

Number	Time	Type	Rec/Res	Service	Addr	Telegram
0	13:56:59.938	SD2	Req	Data Exchange	1 < 10	68 00 00 68 01 04 00 00 00 00 11 00 00 00 00 4C 67 76
1	13:56:59.939	SD2	Res	Data Exchange	12 < 10	67 00 00 68 01 04 00 00 00 00 11 00 00 00 00 4C 67 76
2	13:56:59.946	SD2	Req	Get Diagnostics	1 < 12	68 13 13 68 01 3C 00 3E 3C 00 0C 00 01 00 97 08 FE 01 01 00 00 00 00 87 04
3	13:56:59.951	SD1	Res	Data Exchange	30 < 1	10 1E 01 02 43 C3
4	13:56:59.960	SD2	Req	Data Exchange	1 < 30	68 00 00 68 01 1E 04 00 00 00 00 4C 00 00 00 04 25 17
5	13:56:59.967	SD2	Req	Get Diagnostics	46 < 1	68 05 05 68 0E 81 70 3C 3E 28 F8
6	13:56:59.976	SD2	Req	Get Diagnostics	1 < 46	68 13 13 68 01 A6 00 3C 00 0C 00 01 0F 86 08 FE 01 02 00 00 00 00 54 A5
7	13:56:59.985	SD1	Res	Data Exchange	100 < 1	10 04 01 70 E1 70
8	13:56:59.996	SD2	Req	Data Exchange	1 < 100	68 12 12 68 01 64 00 04 00 00 00 3A 95 00 00 00 3A 99 00 00 00 00 24 49
9	13:57:00.002	SD1	Res	Data Exchange	120 < 1	10 7A 01 70 72 08
10	13:57:00.013	SD2	Req	Data Exchange	1 < 120	68 12 12 68 01 7A 00 00 00 00 00 4C 00 00 00 00 00 00 00 00 4C 68 DE
11	13:57:00.020	SD2	Req	Get Diagnostics	24 < 1	68 05 05 68 08 81 80 3C 3E 09 10
12	13:57:00.030	SD2	Req	Get Diagnostics	1 < 24	68 13 13 68 01 98 00 3E 3C 02 05 00 FF 00 98 08 FE 01 02 00 00 00 00 68 00
13	13:57:00.036	SD1	Res	Scan Address	31 < 1	10 1F 01 69 01 7C
14	13:57:00.040	SD4	Res	Param Token	1 < 1	0C 01 01 80 04

OPERATION MODE

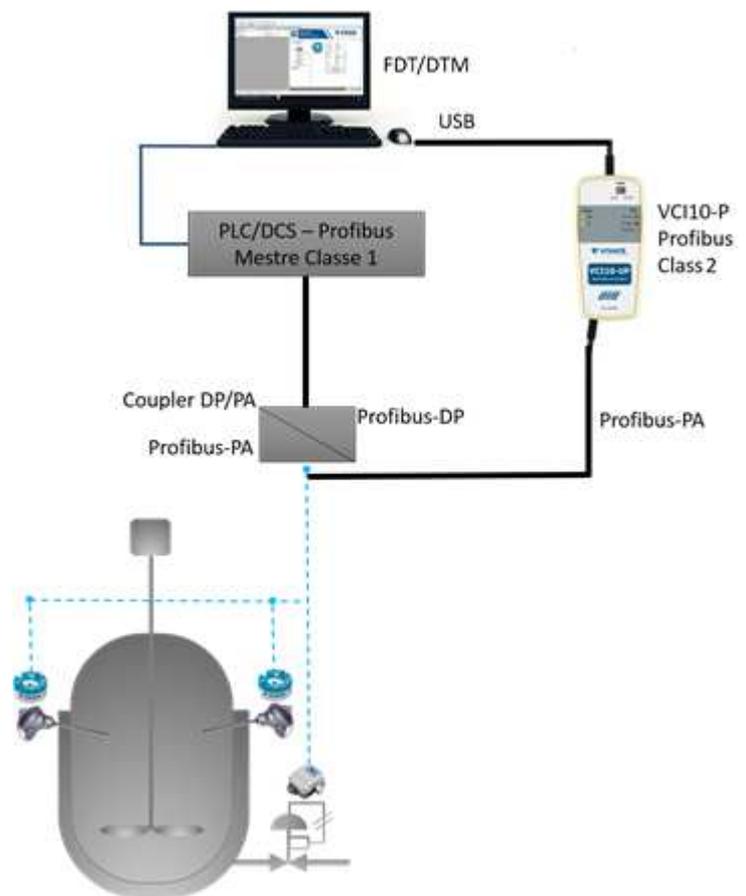
LOCAL

When this mode is selected, VCI10-UP directly supply power to the PA device, so that it can be configured or parameterized. VCI10-UP is able to work even if the PA device is already energized by a PROFIBUS DP / PA coupler.

The DTM communication driver is provided with the product and can be obtained on www.vivaceinstruments.com.br. User can install it in any FDT frame application, for example, as PACTware® or any other configuration tool or asset management system that adopts this technology.

NETWORK (PA BUS)

By selecting "PA bus" operation mode, the VCI10-UP is able to communicate with a PROFIBUS-PA network that is already commissioned and energized. Furthermore, VCI10-UP is able to work with or without the main network controller. This is only possible thanks to the powerful processor inside VCI10-UP which acts as secondary master (Master Class2). VCI10-UP can be set in mono or multi-master PROFIBUS operation mode.



TECHNICAL AND PHYSICAL SPECIFICATIONS

Power Supply	5 Vdc (USB 1.1 and 2.0)
Output Voltage	19.5 Vdc (with load @ 20 mA); 21 Vdc (open circuit)
Communication Protocol	IEC 61158-2; 31.25 kbits/s
Hazardous Area Certification	Not Intrinsically Safe
Operational Temperature	0 to 50°C @10-90 RH (non-condensing)
FDT/DTM Compatibility	Yes
Operational System Compatibility	Win XP, Win 7, Win 8, Win 8.1 and Win 10 (32 / 64 bits)
Host and Profibus-PA Connection	USB Standard for HOST (1.0 m) and retractable hooks for PA side (1.0 m)
Electrical Insulation	Galvanic between USB and Profibus-PA
Dimension / Weight	135 x 65 x 25 mm / 70 g

*VCI10-UP is not certified for classified areas.

*DTM files are distributed by device manufacturers. Vivace only provides DTM files for Vivace equipments.

ORDERING CODE

VCI10 *Communication Interface*

Communication Type	U	USB
	A	ANDROID
	B	BLUETOOTH
Communication Protocol	H	HART
	P	PROFIBUS
Configuration Accessory	0	NO ACCESSORY
	1	REGULAR TABLET
	2	INDUSTRIAL TABLET

Ordering Code Example:

VCI10 - U P - 0

